Patent Claims

1. A compressed air nozzle characterized as having a system carrier with a hose connection for supplying a pressurized medium and an outlet valve with at least one outlet nozzle, where the system carrier (1) is designed to accommodate an integrated, adjustable air-reducing valve.

2. The compressed air nozzle according to Claim 1, characterized in that an insert (10) with a sealing element (12) is inserted into the system sleeve (1) and together with a regulating piece (20) and regulating sleeve (30) forms the air reducing valve.

3. The compressed air nozzle according to Claim 1 or 2, characterized in that the regulating piece (20) and the regulating sleeve (30) are arranged so that they are displaceable and/or rotatable with respect to the sealing element (12).

4. The compressed air nozzle according to one of Claims 1 through 3, characterized in that the throughput of air reducing valve is adjustable by rotating or pushing the control sleeve (30) on or in the system sleeve (1).

5. The compressed air nozzle according to one of Claims 1 through 4, characterized in that the regulating piece (20) and the regulating sleeve (30) for connection and for support of the compressed air hose (9) are designed for the supply of pressure medium.

6. The compressed air nozzle according to one of Claims 1 through 5, characterized in that the hose connection (20, 30; 120, 130) is also designed at the same time to function as an air-reducing valve.

7. The compressed air nozzle according to one of Claims 1 through 6, characterized in that a valve disk (152) of a tilt valve (150) forms a pressure-reducing surface (153), which together with a pressure-reducing surface (121) of a regulating piece (120) forms an air-reducing valve.

8. The compressed air nozzle according to one of Claims 1 through 7, characterized in that the compressed air hose (9) is inserted between the regulating piece (20) and the regulating sleeve (30), and the regulating piece (20) is inserted with a seal into the system sleeve (1) where it is locked in position by a connecting sleeve (90) which is screwed into the system sleeve (1).

9. The compressed air nozzle according to one of Claims 1 through 8, characterized in that a connecting sleeve (90) can be inserted into the system sleeve (1) and together with a clamping piece (100) it is designed for connection and support of a compressed air hose (9) for the supply of a pressurized medium.

10. The compressed air nozzle according to one of Claims 1 through 9, characterized in that it has a permanently connected hose socket (70), with a compressed air shield and/or a connection

for an air pressure gauge and/or a protection against accidental contact being integrated into the hose socket (70).

11. The compressed air nozzle according to one of Claims 1 through 10, characterized in that the system sleeve (1) is surrounded by an outer sleeve (60) and both sleeves (1, 60) accommodate the lower section (71) of the hose socket (70) between them.

12. The compressed air nozzle according to one of Claims 1 through 11, characterized in that the hose socket (70) has a lower section (71) for attaching to the system sleeve, a middle section with a finger rest (73) and/or a finger guard for operation of the outlet valve and an upper section with a tip (74) which has a central outlet nozzle (75) for the pressurized medium.

13. The compressed air nozzle according to one of Claims 1 through 12, characterized in that the finger rest (73) has an integrally molded ring flange (73a).

14. The compressed air nozzle according to one of Claims 1 through 13, characterized in that a ring nozzle (76), which is used to produce an air shield, is provided around the central outlet nozzle (75).

15. The compressed air nozzle according to one of Claims 1 through 14, characterized in that a ring projection (77) which projects beyond the tip (74) and serves to provide protection against accidental contact is arranged between the central outlet nozzle (75) and the ring nozzle (76) and this ring projection is designed to accommodate the connection of a conventional automotive tire air pressure gauge.

16. The compressed air nozzle according to one of Claims 1 through 15, characterized in that a removable extension tube (80) is integrated with the pneumatic safety shield.

17. The compressed air nozzle according to one of Claims 1 through 16, characterized in that the extension tube (80) is provided with a collar on the compressed air end which prevents unintentional loosening of the extension tube after being inserted into the hose socket (70) but on the other hand allows it to be loosened from the hose socket when a greater force is applied.